



Title: "Suppressed Cycle Based Carrier Modulation  
Using Amplitude Modulation"  
Serial No. 09/916,054  
Attorney Docket No. P012676-01UT  
Responsive to Office Action Mailed July 19, 2004  
Date: December 29, 2004

**IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE**

Applicant:	Joseph A. Bobier	)	
		)	
Serial No:	09/916,054	)	Group Art Unit: 2682
		)	
Filed:	July 26, 2001	)	Examiner: Milord, Marceau
		)	
For:	Suppressed Cycle Based Carrier	)	
	Modulation Using Amplitude Modulation	)	
		)	
Attorney Docket:	P012676-01UT	)	

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Mail Stop RCE  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**RESPONSE**

In response to the Final Office Action mailed July 19, 2004, Applicant respectfully requests allowance of amended Claims 1-21 in the above-referenced application in light of this response and amendment as stated in the following paragraphs.

The Examiner has rejected Claims 1-8 under 35 U.S.C. 103(a) as being unpatentable over Kolanek. (U.S. Pat. No. 6,147,553) in view of Hunsinger et al (U.S. Pat. No. 5,465,396) and Cowie et al (U.S. Pat. No. 6,717,992). The Examiner has stated that Claims 9-17 are allowable as written.

Applicant disagrees with the Examiner's position that the prior art cited renders Applicants invention obvious. In fact U.S. Patent No. 6,717,992 issued to Cowie was filed on

June 13, 2001 and should not even be considered prior art since Applicant's application depends on a provisional application filed October 6<sup>th</sup>, 2000. Examiner, in telephonic discussions with Applicant suggested changes to clarify Claims 1-8 to make them allowable. Applicant, in the amendment below, has amended the rejected Claims 1-8 and has also amended Claims 9 and 12 to better clarify and describe the invention as claimed so that all the claims can issue. In the amendment below Applicant has also added dependent Claims 18-21 to better describe that an integer number of said wavelets can have their amplitude suppressed to any amount including all the way to substantially zero energy level. This concept was specifically disclosed in the specification in paragraph 14, and implied throughout the rest of the specification. No new matter was added and thus Applicant requests this application be allowed as now amended.

The claims in this important patent application are now in fact drawn to a new, useful and nonobvious invention. Accordingly, Applicant respectfully submits that the invention as now claimed is clearly patentable over any prior art or any combination thereof.